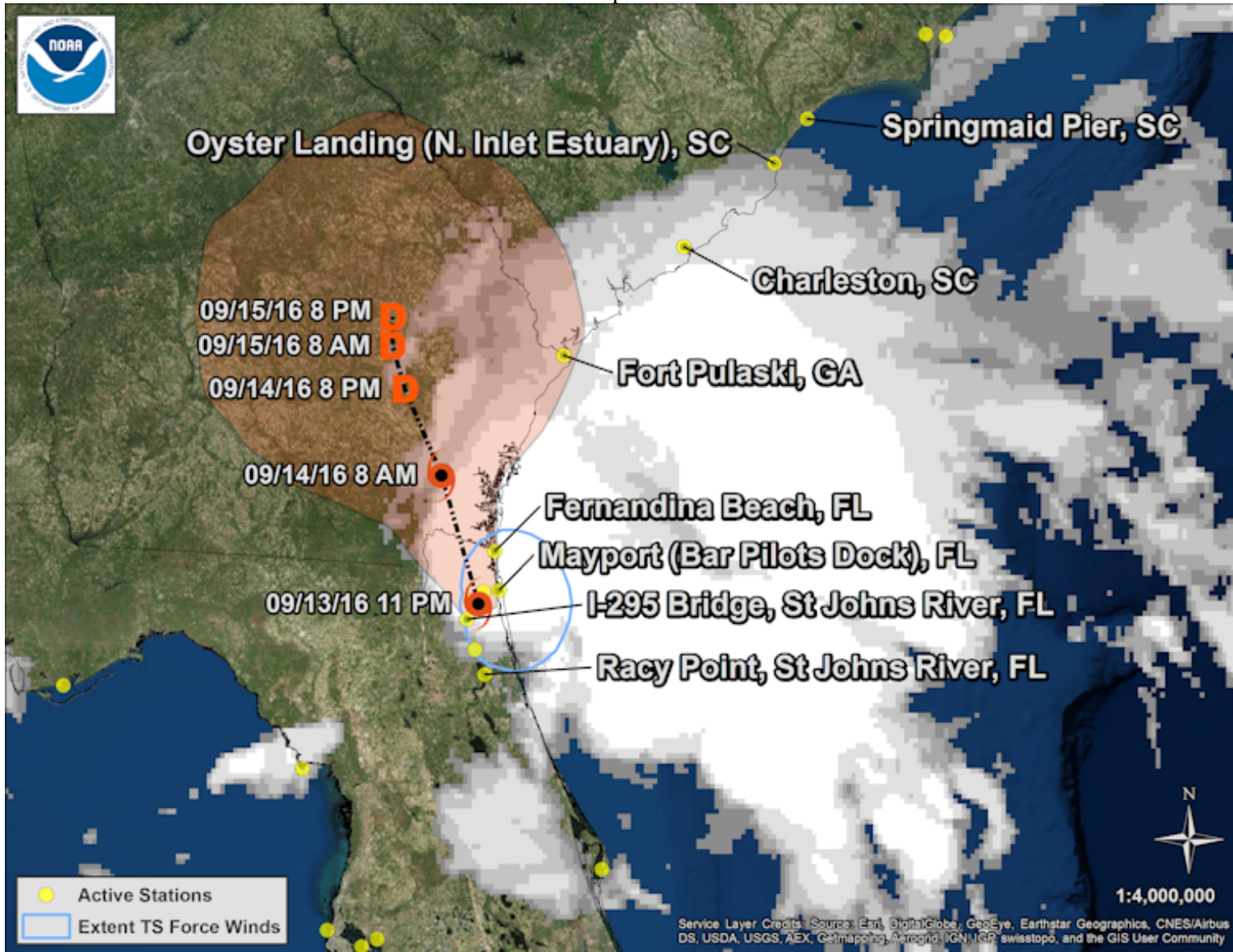




Tropical Storm JULIA QuickLook  
Posted: 00:00 EDT 09/14/2016

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 9/14/2016 00:00 EDT, water levels from northern Florida to South Carolina are slightly elevated. Along the Atlantic coast from Mayport, FL to Springmaid Pier, SC, water levels range between 0.5 and 1.3 feet above normal tide levels. Within St. Johns River, FL, water levels are presently at or slightly above tidal predictions, though water levels appear to be rising.

Winds are increasing at some stations across the region with winds at Fort Pulaski, GA measuring about 20 kts and wind gusts of over 40 kts recorded at Mayport, FL. Barometric pressure is falling slightly at Fernandina Beach, FL and is fairly steady elsewhere.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: PFF

-----

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

BULLETIN

TROPICAL STORM JULIA ADVISORY NUMBER 1...CORRECTED

NWS NATIONAL HURRICANE CENTER MIAMI FL

1100 PM EDT TUE SEP 13 2016

CORRECTED SPELLING OF ALTAMAHA SOUND IN SUMMARY SECTION

...TROPICAL STORM JULIA FORMS ALONG THE COAST OF NORTHEASTERN FLORIDA...

...SLOW-MOVING STORM EXPECTED TO PRODUCE HEAVY RAINFALL...

SUMMARY OF 1100 PM EDT...0300 UTC...INFORMATION

-----

LOCATION...30.3N 81.6W

ABOUT 5 MI...10 KM W OF JACKSONVILLE FLORIDA

ABOUT 60 MI...100 KM S OF BRUNSWICK GEORGIA

MAXIMUM SUSTAINED WINDS...40 MPH...65 KM/H

PRESENT MOVEMENT...NNW OR 345 DEGREES AT 9 MPH...15 KM/H

MINIMUM CENTRAL PRESSURE...1009 MB...29.80 INCHES

WATCHES AND WARNINGS

-----

CHANGES WITH THIS ADVISORY:

A Tropical Storm Warning has been issued from Ponte Vedra Beach, Florida, northward to Altamaha Sound, Georgia.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...

\* Ponte Vedra Beach to Altamaha Sound

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area. In this case, tropical storm conditions are already occurring within the warning area.

For storm information specific to your area, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office.

## DISCUSSION AND 48-HOUR OUTLOOK

At 1100 PM EDT (0300 UTC), the center of Tropical Storm Julia was located near latitude 30.3 North, longitude 81.6 West. Julia is moving toward the north-northwest near 9 mph (15 km/h) and this motion is expected to continue tonight with a reduction in forward speed tomorrow.

Maximum sustained winds are near 40 mph (65 km/h) with higher gusts. Some weakening is forecast during the next 48 hours. Little change in strength is expected tonight. Julia is forecast to weaken to a tropical depression by late Wednesday.

Tropical-storm-force winds extend outward up to 45 miles (75 km), mainly to the northeast and southeast of the center. Recent observations indicate that sustained tropical-storm-force winds are occurring along the northeast coast of Florida from Ponte Vedra northward to the mouth of the St. Johns River.

The estimated minimum central pressure is 1009 mb (29.80 inches).

## HAZARDS AFFECTING LAND

**WIND:** Tropical-storm-force winds are already occurring within the tropical storm warning area.

**RAINFALL:** Julia is expected to produce 3 to 6 inches of rain near the northeast Florida, Georgia, and South Carolina coastlines through Friday afternoon. Isolated totals of 10 inches are possible. This rainfall could lead to flash flooding. Flooding may be further compounded with persistent strong onshore flow reducing river and stream discharges.

**TORNADOES:** An isolated tornado or two will be possible tonight through Wednesday morning across parts of northeastern Florida and southeastern Georgia.

## NEXT ADVISORY

Next intermediate advisory at 200 AM EDT.  
Next complete advisory at 500 AM EDT.

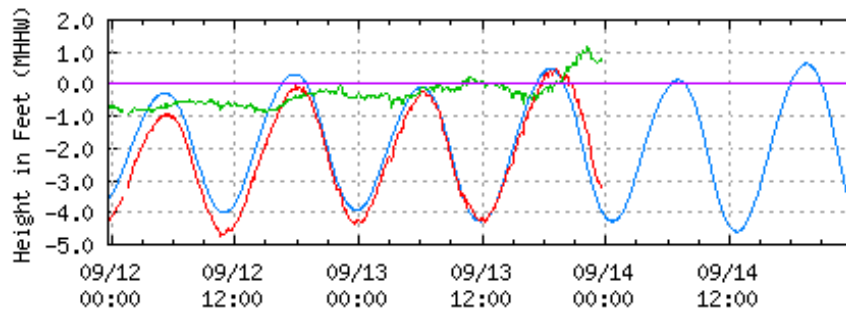
Forecaster Stewart/Franklin

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Mayport \(Bar Pilots Dock\) - Water Level](#), [Mayport \(Bar Pilots Dock\) - Winds](#), [Fernandina Beach - Water Level](#), [Fernandina Beach - Winds](#), [Fernandina Beach - Barometric](#), [Fort Pulaski - Water Level](#), [Fort Pulaski - Winds](#), [Fort Pulaski - Barometric](#), [Charleston - Water Level](#), [Charleston - Winds](#), [Oyster Landing \(N Inlet Estuary\) - Water Level](#), [Springmaid Pier - Water Level](#), [Springmaid Pier - Winds](#), [I-295 Bridge, St Johns River - Water Level](#), [I-295 Bridge, St Johns River - Winds](#), [Racy Point, St Johns River - Water Level](#)



NOAA/NOS/CO-OPS 8720218 Mayport (Bar Pilots Dock), FL  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide — (Obs-Pred) —  
Observed WL — MHHW —

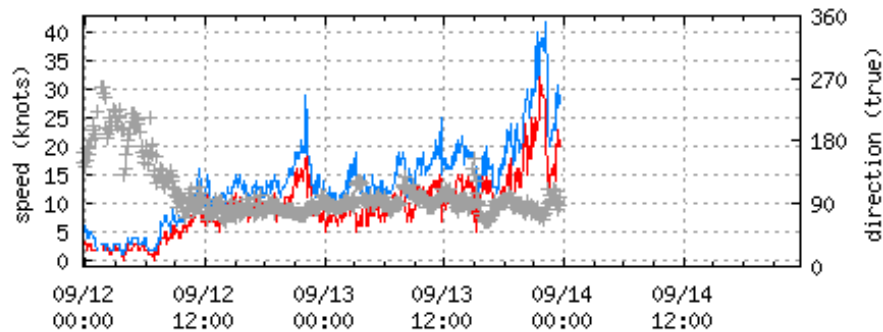
Last Observed Sample: 09/13/2016 23:36 (EDT). Data relative to MHHW

Observed: -3.19 ft. Predicted: -3.96 ft. Residual: 0.77 ft.

Historical Maximum Water Level: Sep 27 2004, 2.47 ft.

Next High Tide: 09/14/2016 07:02 (EDT), 0.13 ft.

NOAA/NOS/CO-OPS 8720218 Mayport (Bar Pilots Dock), FL  
Wind Speed / Gusts / Direction

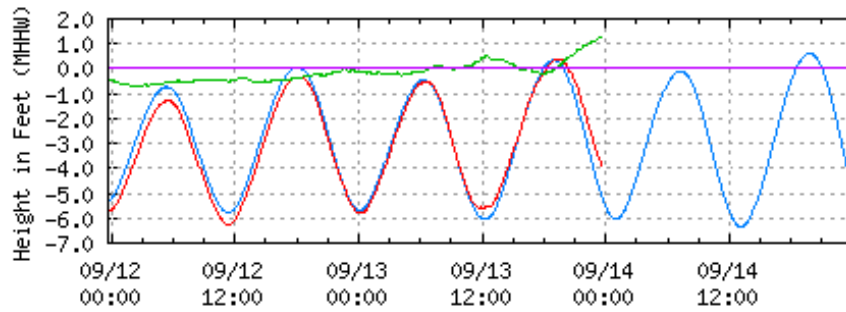


speed — gusts — direction +

Last Observed Sample: 09/13/2016 23:36 (EDT)

Wind Speed: 20 knots Gusts: 29 knots Direction: 99° T

NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL  
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Predicted Tide — (Obs-Pred) —  
Observed WL — MHHW —

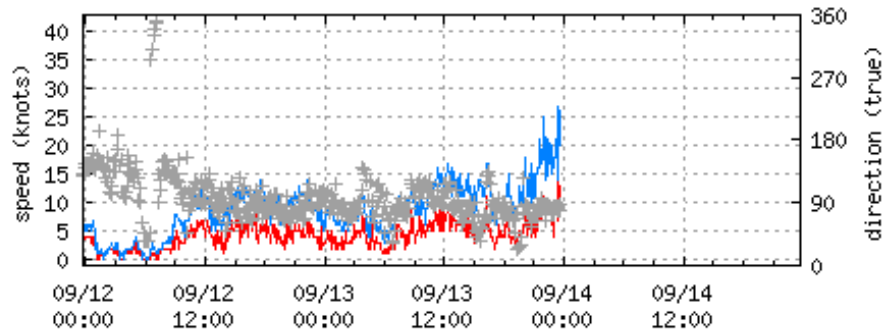
Last Observed Sample: 09/13/2016 23:42 (EDT). Data relative to MHHW

Observed: -3.99 ft. Predicted: -5.27 ft. Residual: 1.28 ft.

Historical Maximum Water Level: Oct 2 1898, 6.94 ft.

Next High Tide: 09/14/2016 07:14 (EDT), -0.10 ft.

NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL  
Wind Speed / Gusts / Direction

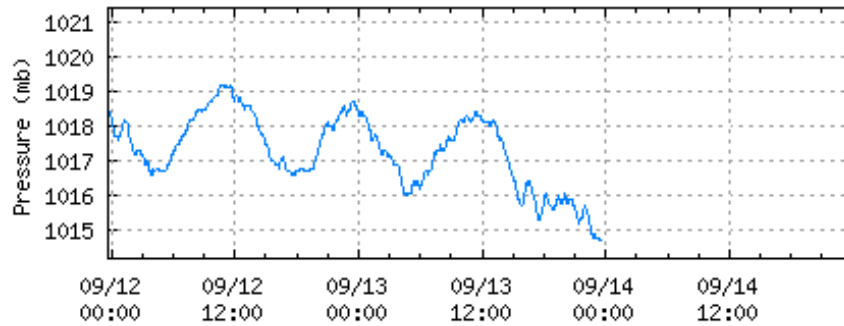


speed — gusts — direction +

Last Observed Sample: 09/13/2016 23:42 (EDT)

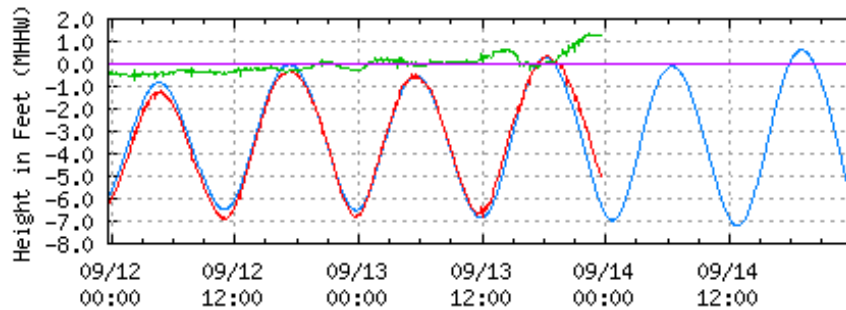
Wind Speed: 11 knots Gusts: 20 knots Direction: 80° T

NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL  
Barometric Pressure



barometric pressure —  
Last Observed Sample: 09/13/2016 23:42 (EDT)  
Barometric Pressure: 1014.7 mb

NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)

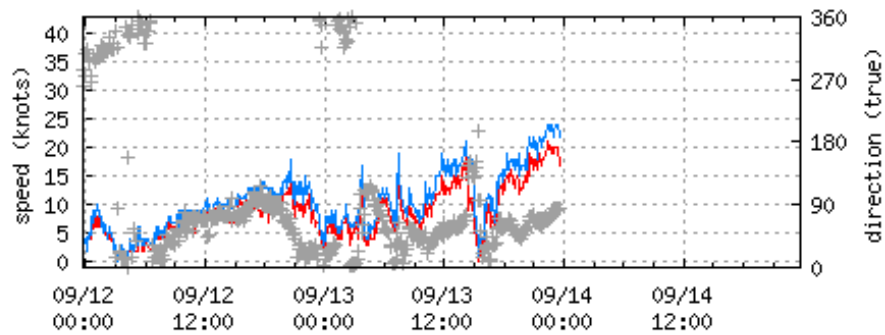


Predicted Tide — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 09/13/2016 23:30 (EDT). Data relative to MHHW  
Observed: -4.96 ft. Predicted: -6.25 ft. Residual: 1.29 ft.  
Historical Maximum Water Level: Oct 15 1947, 3.40 ft.  
Next High Tide: 09/14/2016 06:27 (EDT), -0.11 ft.

# NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA

Wind Speed / Gusts / Direction



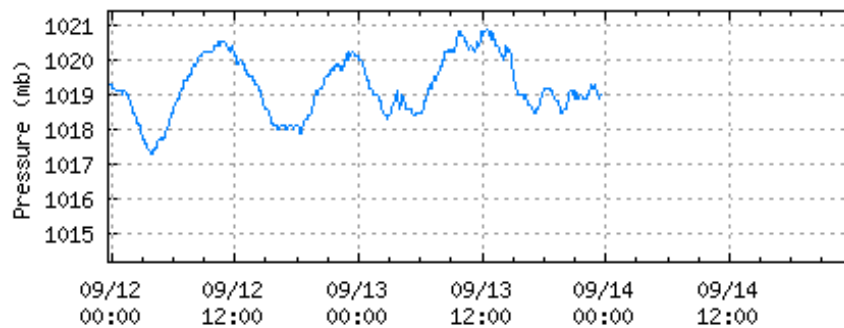
speed — gusts — direction +

Last Observed Sample: 09/13/2016 23:30 (EDT)

Wind Speed: 17 knots Gusts: 22 knots Direction: 86° T

# NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA

Barometric Pressure



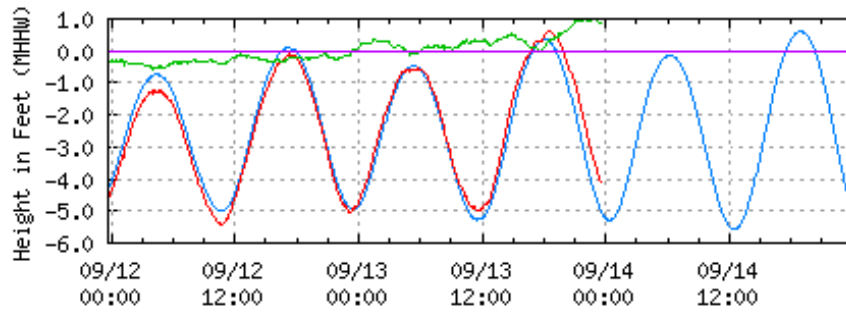
barometric pressure —

Last Observed Sample: 09/13/2016 23:30 (EDT)

Barometric Pressure: 1019.0 mb



NOAA/NOS/CO-OPS 8665530 Charleston, SC  
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Predicted Tide — (Obs-Pred) —  
Observed WL — MHHW —

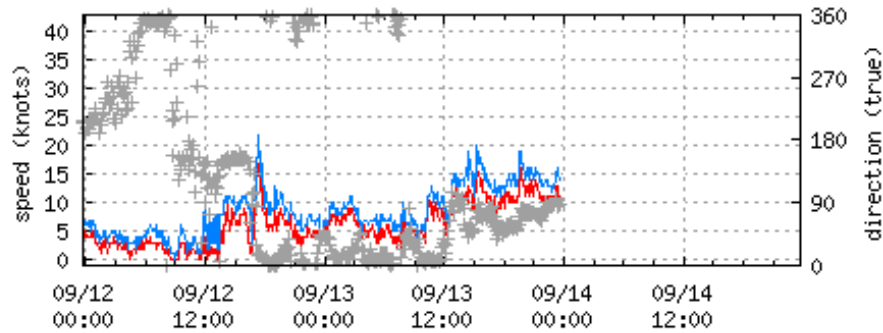
Last Observed Sample: 09/13/2016 23:36 (EDT). Data relative to MHHW

Observed: -4.18 ft. Predicted: -5.05 ft. Residual: 0.87 ft.

Historical Maximum Water Level: Sep 21 1989, 6.76 ft.

Next High Tide: 09/14/2016 06:14 (EDT), -0.15 ft.

NOAA/NOS/CO-OPS 8665530 Charleston, SC  
Wind Speed / Gusts / Direction

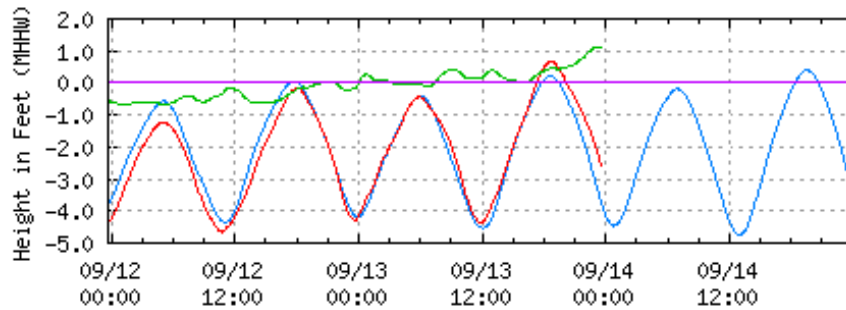


speed — gusts — direction +

Last Observed Sample: 09/13/2016 23:36 (EDT)

Wind Speed: 11 knots Gusts: 13 knots Direction: 92° T

NOAA/NOS/CO-OPS 8662245 Oyster Landing (N Inlet Estuary), SC  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide ——— (Obs-Pred) ———  
Observed WL ——— MHHW ———

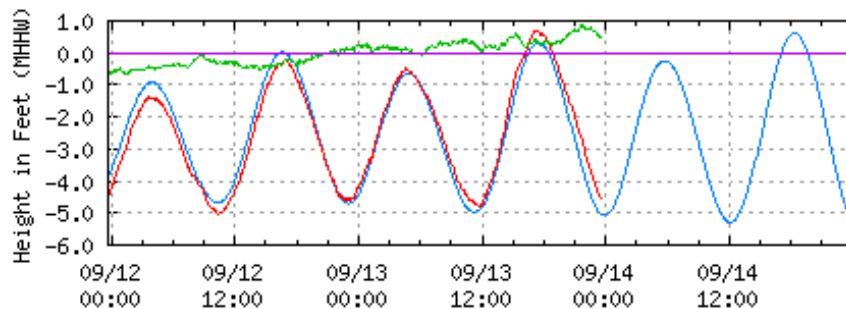
Last Observed Sample: 09/13/2016 23:36 (EDT). Data relative to MHHW

Observed: -2.70 ft. Predicted: -3.79 ft. Residual: 1.09 ft.

Historical Maximum Water Level: Aug 26 2011, 2.40 ft.

Next High Tide: 09/14/2016 06:56 (EDT), -0.19 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide ——— (Obs-Pred) ———  
Observed WL ——— MHHW ———

Last Observed Sample: 09/13/2016 23:36 (EDT). Data relative to MHHW

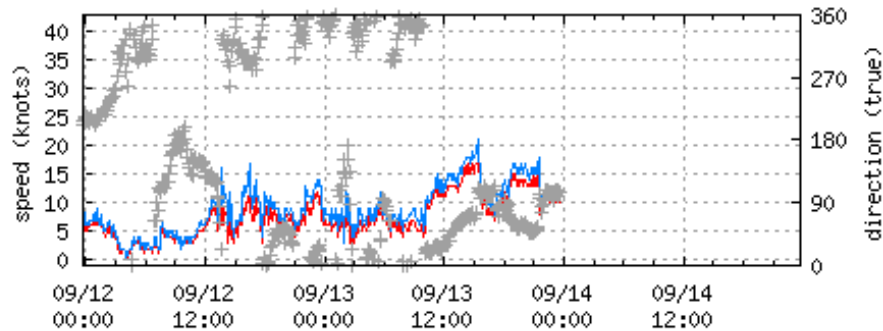
Observed: -4.60 ft. Predicted: -5.05 ft. Residual: 0.45 ft.

Historical Maximum Water Level: Jan 1 1987, 3.65 ft.

Next High Tide: 09/14/2016 05:44 (EDT), -0.25 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC

Wind Speed / Gusts / Direction



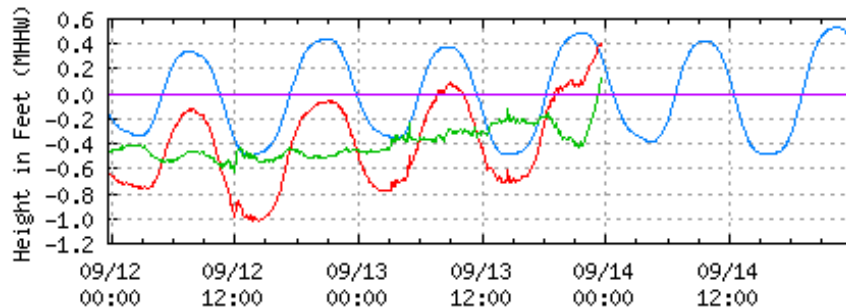
speed — gusts — direction +

Last Observed Sample: 09/13/2016 23:36 (EDT)

Wind Speed: 9 knots Gusts: 11 knots Direction: 100° T

NOAA/NOS/CO-OPS 8720357 I-295 Bridge, St Johns River, FL

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide —  
Observed WL —

(Obs-Pred) —  
MHHW —

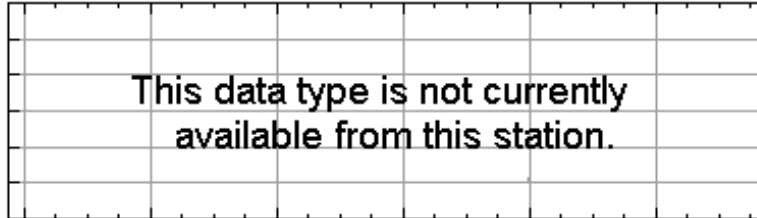
Last Observed Sample: 09/13/2016 23:36 (EDT). Data relative to MHHW

Observed: 0.40 ft. Predicted: 0.28 ft. Residual: 0.12 ft.

Historical Maximum Water Level: Sep 27 2004, 3.46 ft.

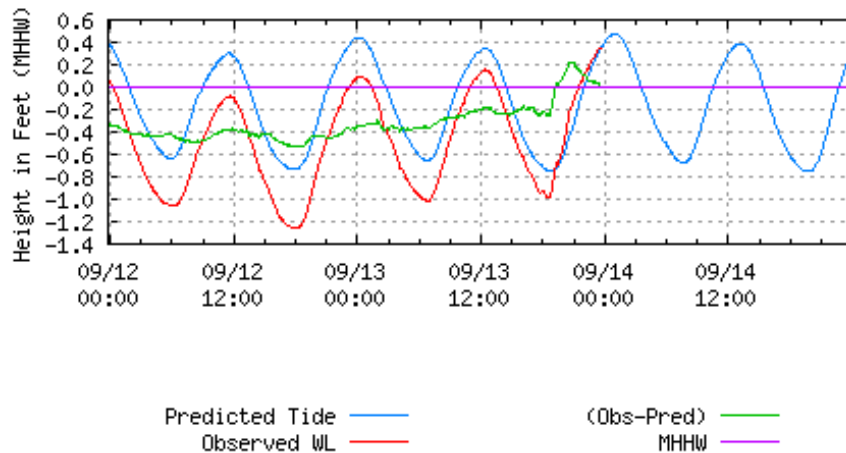
Next High Tide: 09/14/2016 09:39 (EDT), 0.42 ft.

NOAA/NOS/CO-OPS 8720357 I-295 Bridge, St Johns River, FL  
NOAA/NOS/CO-OPS



Last Observed Sample: 09/13/2016 23:36 (EDT)  
Wind Speed: 2 knots Gusts: 3 knots Direction: 259° T

NOAA/NOS/CO-OPS 8720625 Racy Point, St Johns River, FL  
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 09/13/2016 23:36 (EDT). Data relative to MHHW  
Observed: 0.34 ft. Predicted: 0.34 ft. Residual: 0.00 ft.  
Historical Maximum Water Level: n/a  
Next High Tide: 09/14/2016 01:00 (EDT), 0.48 ft.

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
8720218	Mayport (Bar Pilots Dock), FL	09/13/2016 23:36 (EDT)	-3.19 ft	-3.96 ft	0.77 ft	0.46 ft
8720030	Fernandina Beach, FL	09/13/2016 23:42 (EDT)	-3.99 ft	-5.27 ft	1.28 ft	0.37 ft
8670870	Fort Pulaski, GA	09/13/2016 23:30 (EDT)	-4.96 ft	-6.25 ft	1.29 ft	0.39 ft
8665530	Charleston, SC	09/13/2016 23:36 (EDT)	-4.18 ft	-5.05 ft	0.87 ft	0.64 ft
8662245	Oyster Landing (N Inlet Estuary), SC	09/13/2016 23:36 (EDT)	-2.70 ft	-3.79 ft	1.09 ft	0.67 ft
8661070	Springmaid Pier, SC	09/13/2016 23:36 (EDT)	-4.60 ft	-5.05 ft	0.45 ft	0.71 ft
8720357	I-295 Bridge, St Johns River, FL	09/13/2016 23:36 (EDT)	0.40 ft	0.28 ft	0.12 ft	0.40 ft
8720625	Racy Point, St Johns River, FL	09/13/2016 23:36 (EDT)	0.34 ft	0.34 ft	0.00 ft	0.34 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce